Professional Series Monitor

109MP

19" (18.0" VIS) High-Resolution Monitor with BRILLIANCE® Technology Features

- **Larger image in a compact size makes it The Ultimate Desktop Monitor™.** Get nearly 30% more viewable screen area than a typical 17" monitor for about the same desktop space
- **Stunning picture quality.** Experience high contrast, superior brightness (20% brighter than our previous 109) and the sharpest images available with CrystalClear and Pixel-Perfect Technologies from Philips, and a Self Converging Yoke that provides the absolute minimum convergence error, resulting in no misinformation
- **Simple one-button setup.** Make quick, accurate, and easy onscreen adjustments with custom rotary button with Quick X'it
- **One-click connectivity.** Implement USB Technology with one simple connection into the USB Bay™ slot
- **A complete audio system.** Hear and experience the advantage of total audio control with built-in front firing stereo speakers, microphone, headphone jack, bass, treble, balance, volume, and mute features

Let's make things better.

PHILIPS

PRODUCT NUMBER *19A580BQ*
TECHNICAL SPECIFICATIONS:

Professional Series Monitor

109MP

CRT WITH PIXEL-PERFECT TECHNOLOGY

Size and Deflection	19"/48 cm, 90°
VIS	18.0"
Horizontal Pitch	0.22 mm
Dot Pitch	0.26 mm
Tube Type	Flat Square Super High Contrast Invar Shadow Mask
Screen Treatment	CrystalClear
Coating	ARASC 46% Light Transmission
Phosphor	P22
Recommended Display Area	14.2" x 10.6"/ 360 x 270 mm
Maximum Display Area	14.4" x 10.7"/ 365.5 x 273 mm
Focus	ADF-SD™
Convergence	Self Converging Yoke

SCANNING

Horizontal Frequency	30 - 107kHz
Vertical Frequency	50 - 160Hz

VIDEO

Video Dot Rate	230MHz
Input Impedance:	
- Video	75Ω
- Sync	2.2 kΩ
Input Signal Levels:	.7Vp-p or 1.0Vp-p
- Sync Input Signal	Separate Sync Composite Sync Sync on Green (Auto)

AUDIO

Loudspeakers	2 Built-In Front Firing Stereo @ 2 Watts
Earphone Output	Stereo
Microphone	Internal Electrical Condenser Microphone

DISPLAY AND PERFORMANCE PARAMETERS

White Color Temperature and Chromaticity CIE Coordinates:

at 9300˚K:	x = 0.283 y = 0.298
at 6500˚K:	x = 0.313 y = 0.329
at 5500˚K:	x = 0.332 y = 0.347

RESOLUTION AND PRESET MODES

Maximum Resolution 1800 x 1350 @ 75Hz
14 User Definable Modes
13 Factory Preset Modes:

Resolution Mode	H. Freq. (kHz)	V. Freq. (Hz)	Standard
640 x 400	31.5	70	VGA®
640 x 480	31.5	60	VGA
640 x 480	37.5	75	VESA®/75
800 x 600	46.9	75	SVGA®
800 x 600	53.7	85	VESA/85
1024 x 768	60.0	75	XGA
1024 x 768	68.6	85	VESA/85
1152 x 870	69.0	75	Mac®
1152 x 900	71.8	76	SUNSPARC
1280 x 1024	80.0	75	SXGA
1280 x 1024	91.0	85	VESA/85
1600 x 1200	93.8	75	VESA/75
1600 x 1200	106.3	85	VESA/85

PLUG-AND-PLAY COMPATIBILITY

Display Data Channel DDCI/2B (VESA)

POWER MANAGEMENT

Complies with EPA Energy Star, NUTEK, and TCO '95 Specifications
Philips 109 consumes less than 5 Watts in Power Off mode

REGULATORY APPROVALS

UL	CSA
FCC-B	CE
TCO '95 (Ergonomic & Environmental)	
SEMKO	TUV/GS
TUV-ERGO	DHHS

LOW-EMISSION CHARACTERISTICS

Complies with MPR-II and TCO 1995 Specifications

CONTROLS AND CONNECTIONS

Top:
- Power On/Off

Front:
- OSD Knob
- Select Button
- Audio Mute Button

Side:
- Headphone and Microphone Sockets

Rear:
- Power Input Socket
- 15-Pin D-Sub Input Socket
- 2-Channel Audio Input Cinch Sockets
- Microphone Out Socket
- BNC x 5 Connectors
- USB Bay™
- Input Selector Switch

Cables:
- Detachable Power Cord
- Detachable D-Sub Interface Cable
- Detachable Stereo Audio Cable
- Detachable Microphone Cable
- Switchless Mac Adaptor

OSD Menu Structure:
Brightness and Contrast
Geometry:
- H-Shift
- H-Size
- Zoom
- V-Shift
- V-Size
- H-moiré
- Tilt
- Trapezoid
- V-moiré
- Parallelogram
- Pincushion
- Upper Corner
- Unbalanced Pincushion Correction
- Lower Corner

Color:
- 9300˚K Factory Preset
- 6500˚K Factory Preset
- 5500˚K Factory Preset
- User Preset 1, Red, Green, Blue Gain
- User Preset 2, Red, Green, Blue Gain
- User Preset 3, Red, Green, Blue Gain
- Recall User Presets

Degauss
OSD Position
Input Selection
Rotary Default
Reset Factory Settings
Audio: Bass, Treble, Balance, Volume, Mute

Display Language:
- Multilingual, User-selectable Colorific® Software for Windows® and Mac

PHYSICAL SPECIFICATIONS

Unit Dimensions	19.1"W x 19.3"H x 20.3"D/ 485 x 490 x 515 mm (including pedestal)
Unit Weight	53.8 lbs./24.5 kg.
Carton Dimensions	23.5"W x 24.9" H x 25.6"D/ 596 x 632 x 650 mm
Carton Weight	63.8 lbs./29 kg.
UPC	0 37849 86800 3
Power Supply	90 - 264 Vac, 50/60Hz
Power Consumption	110 Watts Maximum
Operating Temperature	32°F to 104°F/ 0°C to 40°C
Relative Humidity	10% to 90%
Storage Temperature	-40°F to 149°F/ -40°C to 60°C
Relative Humidity	5% to 95%
MTBF	>75,000 Hours (excluding CRT)

USB Bay with optional USBody™

USB TECHNOLOGY

With the USBody, USB Technology is simply one click away. Just insert the USBody into the USB Bay, plug in the USB peripheral, and let the PC do the rest. Don't worry about IRQ settings, hardware interrupts, or jumpers–with USB, those decisions will be automatically made by your operating system.

BRILLIANCE®

CRYSTALCLEAR

CustoMax
interactive monitor software
(available with USBody only)

Carton Contains: 109MP Color Monitor, V69 Cable, Audio and Mic Cables, Switchless MCC Adaptor, Power Cable, User's Manual, and Warranty Card

This monitor fulfills all NUTEK requirements regarding power management as indicated on the TCO 1995 label.
The EPA ENERGY STAR emblem does not represent EPA endorsement of any product or service. As an ENERGY STAR Partner, Philips has determined that this product meets the ENERGY STAR guidelines for energy efficiency.
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Windows is a registered trademark of Microsoft Corp.
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FOR MORE INFORMATION

Internet Address: http://www.philipsmonitors.com
FAX INFORMATION SYSTEM: (423) 521-4341
TECHNICAL SUPPORT: (800) 835-3506 (USA)
(423) 475-0280 (outside USA)

Literature order form: 19A580BQC